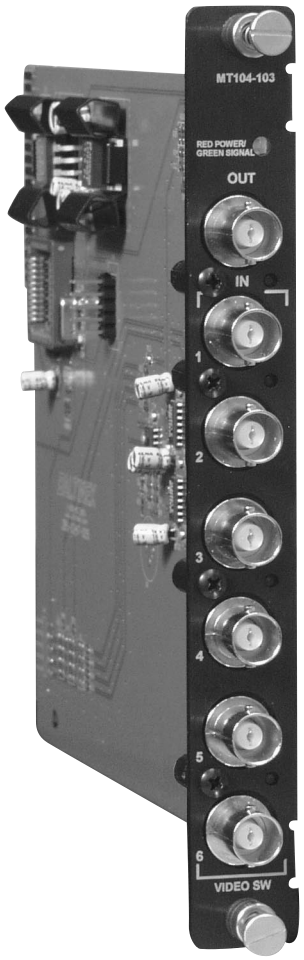
Video Switcher Cards

MultiTasker

The **MT104-100** and **MT104-103** are 6-in 1-out Video Switcher Cards designed for use in MultiTasker™ enclosures. When installed, these MT Video SW cards enable 6 composite video sources to be connected and switched to a single display or recording device. For up to 22 inputs, the MT104-100 can be used together with one or two Video SW Expansion Cards. See the MT104-101 product sheet for more information.

Multiple MT Video SW series cards can be installed into a MultiTasker enclosure to provide additional functionality. For example, two MT Video SW cards can be used to handle the two components of an S-Video signal (chroma and luma). To create a component video switcher, simply install three of the MT Video SW cards, one each for the Y, Pr, and Pb (or Y, R-Y, B-Y) signal components. Similarly, the MT Video SW series cards can also be used to pass computer video signals: 4 cards for RGBS and 5 for RGBHV.

The MT Video SW cards utilize solid state switching technology, and offer video bandwidth of 350 MHz, enabling them to pass high-resolution video signals without degradation. Inputs are selected via easy-to-use ASCII commands from a control system or computer connected to the RS-232 port of a MultiTasker™ enclosure. Also available through ASCII control is "on-off" output control. By special order only, you can have VIS (Vertical Interval Switching) capability added. This is a feature that eliminates the "glitch" normally associated with composite video switching.



MT104-103

QUICK REFERENCE

Model Numbers	Inputs/ Outputs	Input Connector(s)	Output Connector(s)	Bandwidth	Output On/Off	Signal Detect	Expansion	Slots
MT104-100	6-In 1-Out	BNC	BNC	350 MHz	●	●	2 cards	1
MT104-103	6-In 1-Out	BNC	BNC	350 MHz	●			1

SPECIFICATIONS

GENERAL

Inputs: .....(6) Female BNC Connectors
(Analog Video or TTL Sync)
MT104-100 .....(1) Internal 10-pin IDC Conn.

Output: .....(1) Female BNC Connector
(Analog Video or TTL Sync)

Capability:

Video formats:	*Number of cards required:* 1	2	3	4	5
Composite Video	●				
S-Video (Y/C)		●			
Component Video			●		
RGsB, RsGsBs			●		
RGBS				●	
RGBHV					●
VGA through UXGA*					●
QXGA*					●

**requires adapter(s); see Optional Accessories*

Approvals .....CE, FCC

Expandability:
MT104-100 .....up to two expansion cards
MT104-103 .....not expandable

MECHANICAL

Enclosure Slots Required 1
Weight.....0.43 lb.....0.19 kg.
Shipping Weight (approx.) .....1 lb. .....0.45 kg.
T° Operating .....10°C to 40°C
T° Storage.....0°C to 50°C
Humidity.....90% non-condensing
MTBF (calc.).....55,000 hrs.

ELECTRICAL

Input Signal:
Analog .....+/–1.5V (1.5V p-p)
or Digital .....+5V
Impedance .....75 Ohm
Type .....Differential
Return loss.....–38dB @ 50MHz
Maximum DC Offset.....10mV

Output Signal:
Gain .....1.05 (+/–5%)
Impedance .....75 Ohm
Propagation Delay (Sync).....4 nS Max.
Rise/Fall time (Sync).....9 nS Max.
Differential Phase Error .....0.01°, @ 4.5 MHz
DC Offset .....+/– 10 mV Max, input=0V

Bandwidth.....350 MHz @ –3dB

Power Requirements .....3 Watts
(from MT Enclosure)

OPTIONAL ACCESSORIES

MS8102CA: 6 ft., 15-pin HD Male to 5 BNC Male
MS8112CA: 6 ft., 15-pin HD Female to 5 BNC Male